

## ABSTRACT

A variable optical attenuator (99) comprises a holder (4), a rotatable mechanism (5), a refractor (6), an input port (2) and an output port (3). The input port and the output port are engaged with corresponding upright beams (42, 43) of the holder, which hold the input port and the output port in alignment with each other. The refractor is mounted on the rotatable mechanism by adhering to or soldering on a groove (52) of the rotatable mechanism, wherein the rotatable mechanism mates with a through hole (46) of the holder to make the center of the refractor and the optical axis of input and output collimators (22, 32) of the input and output ports in line.